

B01 OF 16091 -  
05793A

SEE BO

CS: 16091

ID: B01 05793A

I 16091-05793A 102

I 75-5(29)300

I 16093-09241A

I 75-4(39)293

IR 16091-11581A

IR 74-4(30)300

IR 16093-11580A

IR 75-4(43)293

10.6 mi. of bit. conc. surf.,  
roadside safety improve., bit  
base stabiliz. on the NB Rdway  
and bit. base crse on the SB  
Rdway on I-75 from 0.75 mile  
N of Wolverine Rd. N'ly to 2.2  
miles N of M-68, all in Cheboygan  
County.

STATE OF MICHIGAN  
DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION

PLANS OF PROPOSED BRIDGE RAILING REPLACEMENT

MICHIGAN PROJECT I-75-5(29)300

CONTROL SECTION Is 16091

JOB NUMBER 05793A

I - 75

CHEBOYGAN COUNTY  
TUSCARORA TOWNSHIP

PLAN INDEX	
SHEET NO.	DESCRIPTION
I	Title Sheet
IA	Quantity Sheet
IB	Bridge Approach Curb & Gutter
IC	Maintaining Traffic Diagram (typical)
ID	Maintaining Traffic Quantity Sheet
IE	Typ. Locations & Supports for Const. Signs
IF	Steel Post Details
IG	Sign Connection Details
IH	Construction Zone Sign Details

BOI of 16091	
SHEET NO.	DESCRIPTION
2	General Plan of Site
3	General Plan of Structure
4	Bridge Railing Replacement

XOI of 16091	
SHEET NO.	DESCRIPTION
2	General Plan of Site
3	General Plan of Structure
4	Bridge Railing Replacement

NOTE:

WHERE THE FOLLOWING ITEMS ARE CALLED FOR ON THE PLANS THEY ARE TO BE CONSTRUCTED ACCORDING TO THE STANDARD PLAN GIVEN BELOW OPPOSITE EACH ITEM UNLESS OTHERWISE INDICATED.

STANDARD PLANS TO BE PRINTED

SHEET NO.	TITLE
E-4-A-133	BRIDGE APPROACH CURB AND GUTTER FOR BRIDGE - BARRIER RAILING

STANDARD PLANS NOT TO BE PRINTED

SHEET NO.	TITLE
VI-124B	Drum Guide Rail, Drum Guide Rail Double, Drum, Timber Curb & Snow Fence, Timber Curb & Splash Boards.
VI-125C	Type II & III Barricades and Lighted Arrows.
II-52A	Portable Concrete Barrier.

GENERAL NOTES

EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS OR IN THE PROPOSAL AND SUPPLEMENTAL SPECIFICATIONS CONTAINED THEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 1976 EDITION.

THE DESIGN OF THESE STRUCTURES IS BASED ON THE MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION SPECIFICATIONS FOR THE DESIGN OF HIGHWAY BRIDGES, 1958 EDITION AND CURRENT AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES HS-20-44 (AND ALTERNATE MILITARY) LOADING. LIVE LOAD PLUS IMPACT DEFLECTION DOES NOT EXCEED  $\frac{1}{1000}$  OF SPAN LENGTH.

THE SOIL BORING LOGS REPRESENT POINT INFORMATION. PRESENTATION OF THIS INFORMATION IN NO WAY INFERS THAT SUBSURFACE CONDITIONS ARE THE SAME AT LOCATIONS OTHER THAN THE EXACT LOCATION OF THE BORING.

ALL EXPOSED CONCRETE CORNERS SHOWN SQUARE ON THE PLANS SHALL BE BEVELED WITH  $\frac{1}{2}$ " TRIANGULAR MOLDINGS EXCEPT AS OTHERWISE NOTED.

THE STATIONING AS SHOWN ON THESE PLANS FOR THE INTERSECTION OF THE CENTER-LINE OF BRIDGE AND ROADWAY (AND THE RAILROAD) CENTERLINE IS BELIEVED TO BE CORRECT. IT SHALL, HOWEVER, BE CHECKED AT THE TIME OF STARTING CONSTRUCTION AND IF THE STATIONING SHOWN ON THE PLANS IS INCORRECT, IT SHALL BE REPORTED TO THE DESIGN OFFICE AT LANSING AND THE STRUCTURE SHALL BE STAKED OUT USING THE ACTUAL INTERSECTION OF THE CENTERLINE OF BRIDGE AND ROADWAY (AND THE RAILROAD) CENTERLINE AS THE CONTROL POINT.

THE DESIGN OF THE STRUCTURAL MEMBERS IS BASED ON MATERIAL OF THE FOLLOWING GRADES AND STRESSES:

CONCRETE: GRADES 355, 45D f'c = 3,000 psi

STEEL REINFORCEMENT: fy = 60,000 psi

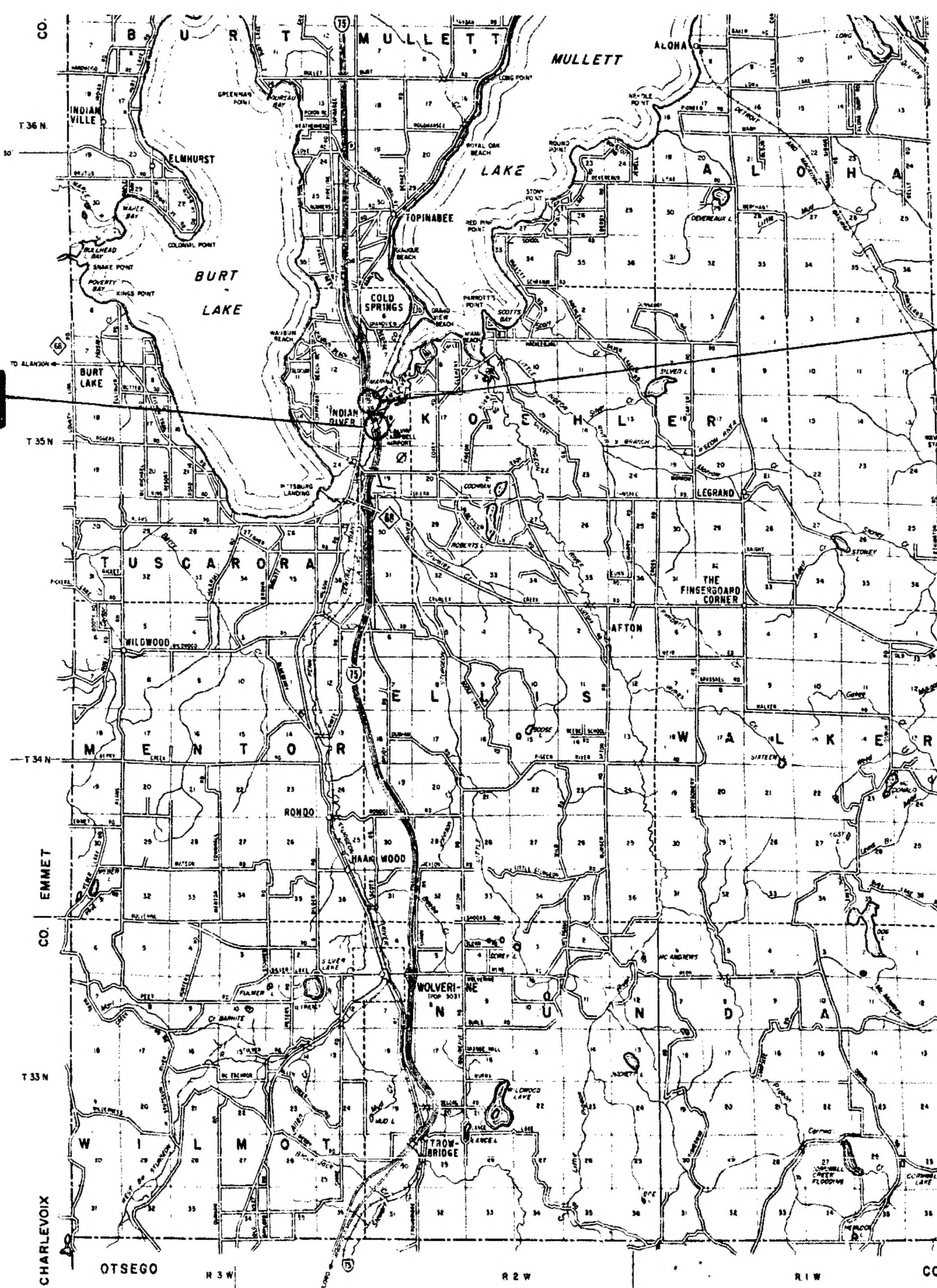
STRUCTURAL STEEL: A36 fy = 36,000 psi

STRUCTURAL STEEL: A588 fy = 50,000 psi

PRESTRESSED CONCRETE: f'c = 5,000 psi

PRESTRESSING STRANDS: f's = 270,000 psi

THE EXISTING STRUCTURE SHALL BE CHECKED AT THE TIME OF STARTING CONSTRUCTION TO SEE THAT ITS RELATIONSHIP TO THE PROPOSED WORK IS AS SHOWN ON THESE PLANS AND ANY DIFFERENCES REQUIRING CHANGES IN THE NEW WORK SHALL BE REPORTED TO THE DESIGN OFFICE.



XOI of 16091

BOI of 16091

ITEM NO. 72070

CONTRACT FOR APPROVALS		
CHECKED	ENGINEER-BRIDGE DESIGN	DATE
RECOMMENDED FOR APPROVAL	ENGINEER OF DESIGN	DATE
RECOMMENDED FOR APPROVAL	ENGINEER OF TRAFFIC & SAFETY	DATE
RECOMMENDED FOR APPROVAL	ENGINEER OF CONSTRUCTION	DATE

DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION  
JOHN P. WOODFORD - DIRECTOR

APPROVED BY:  
DEPUTY DIRECTOR - HIGHWAYS DATE  
PLANS PREPARED BY: MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION APPROVED

SUPERVISOR RUSSMAN APPROVED

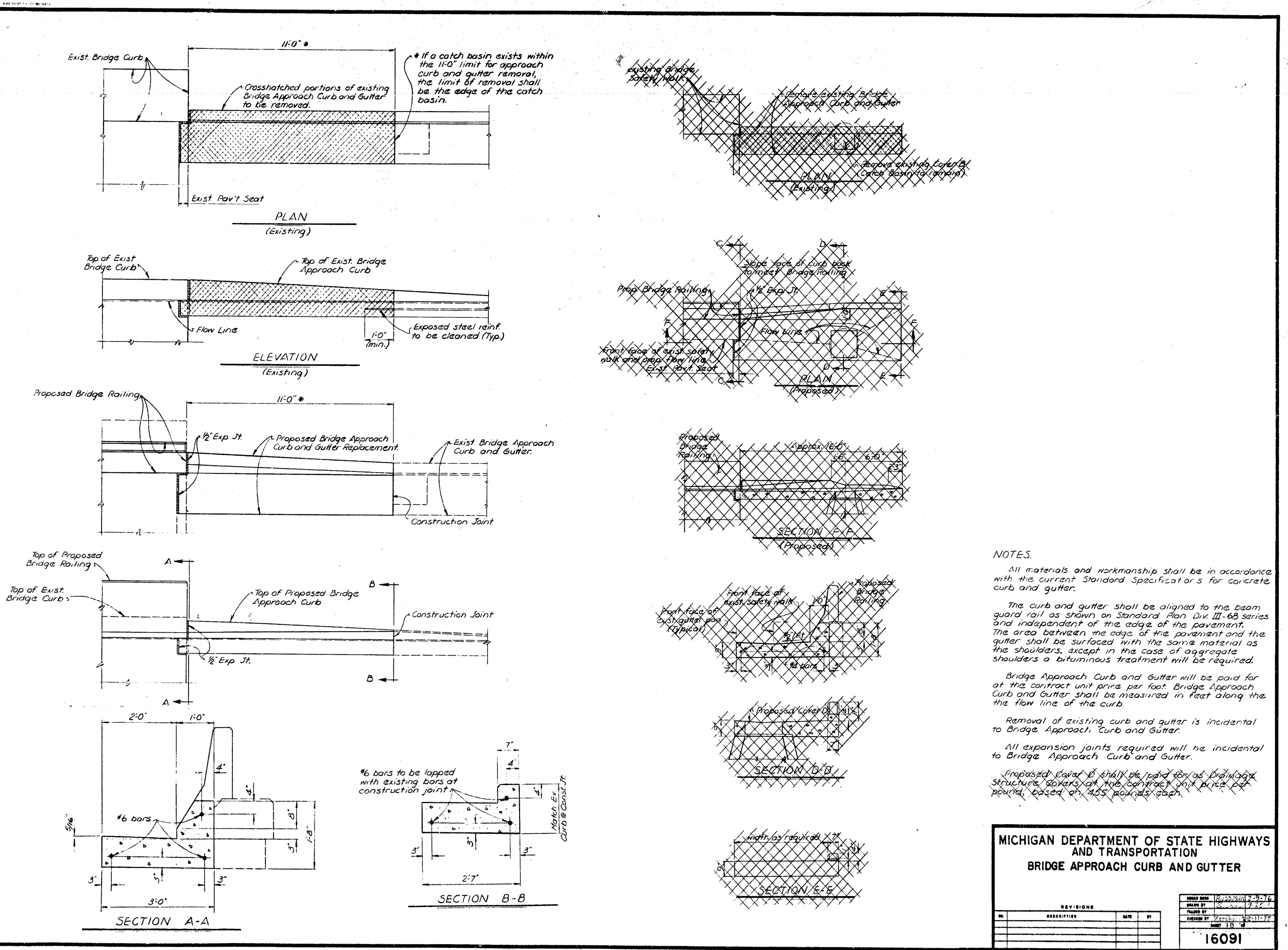
Is 16091 JOB NUMBER 05793A FEDERAL PROJECT I-75-5(29)300 SHEET NO. 1 CONTROL SECTION

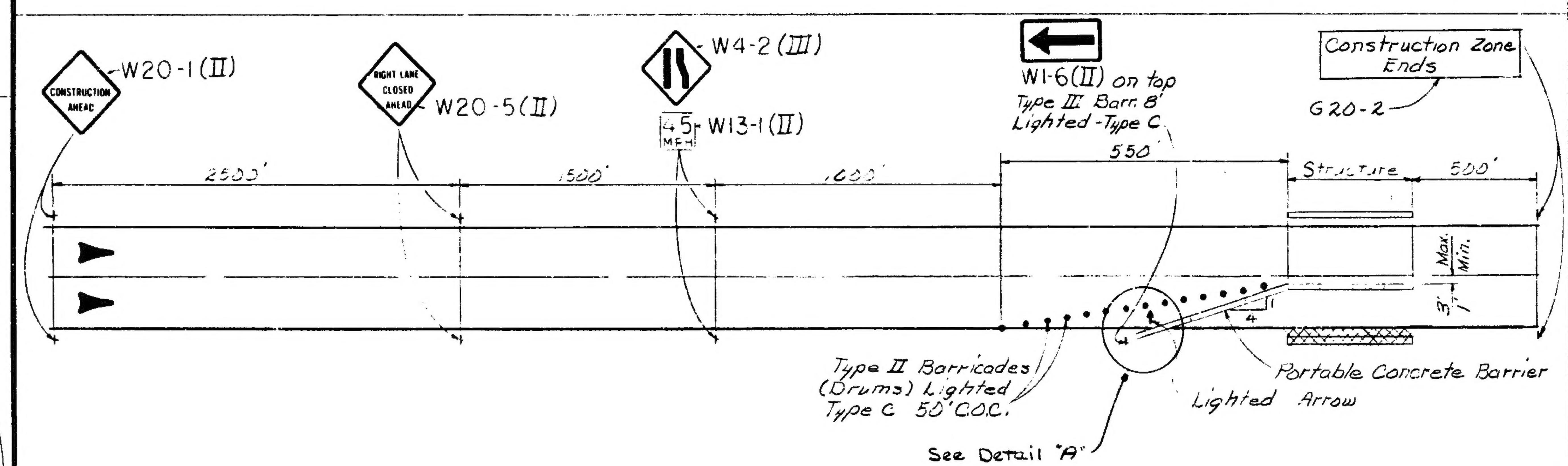
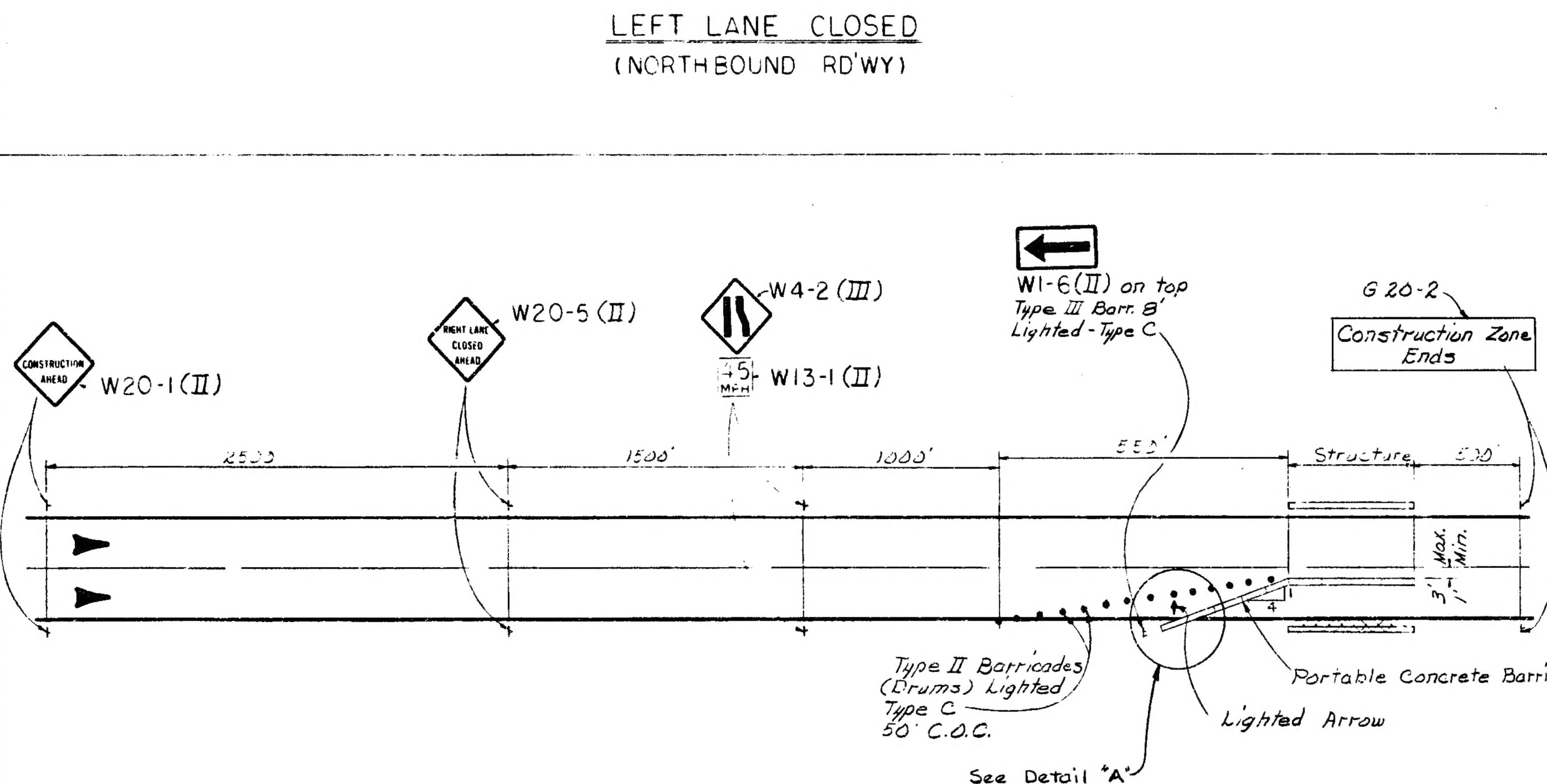
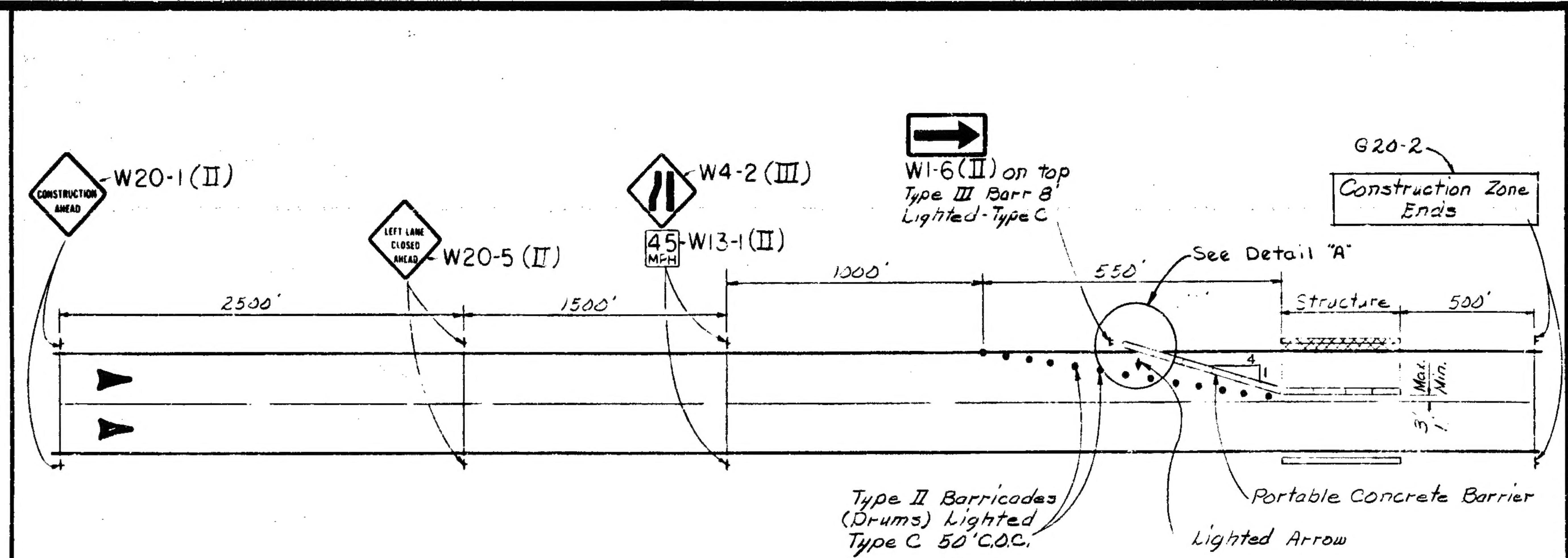
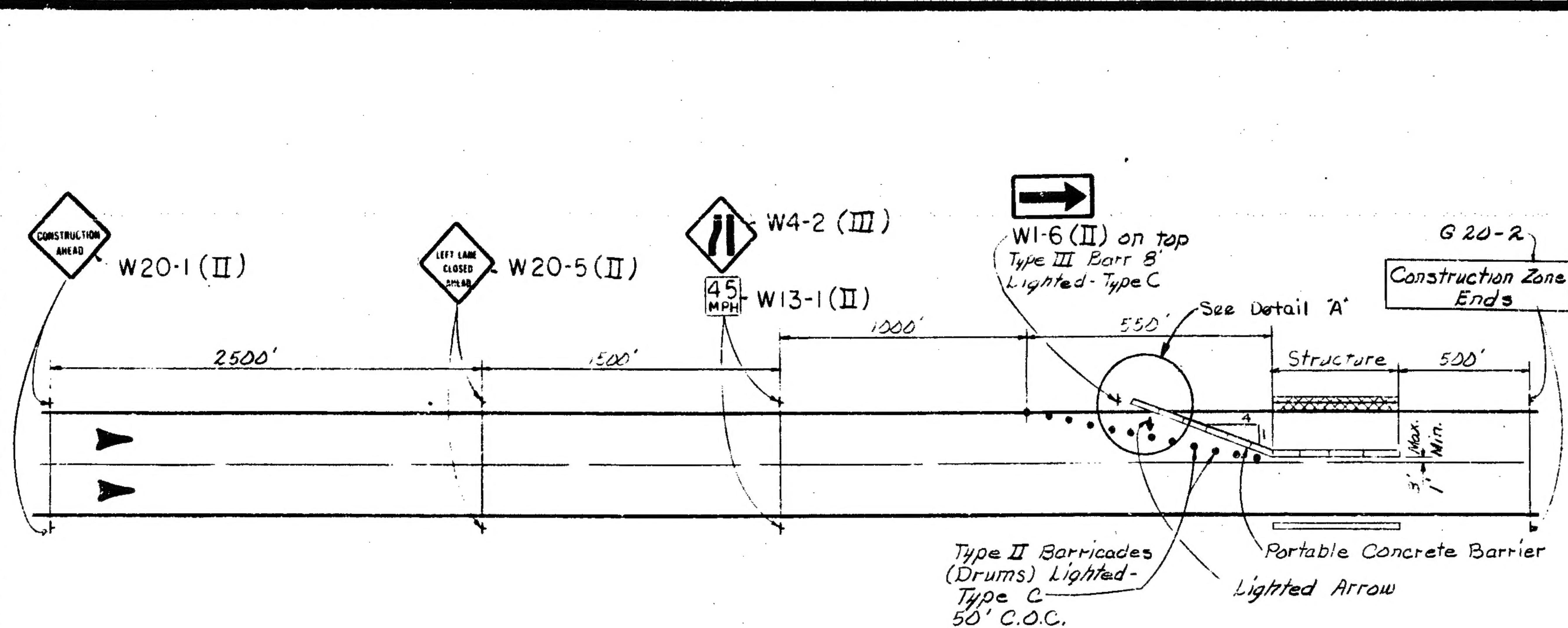
Is 16091 - 05793A

ITEM	UNIT	CONTR. QUANT.	FINAL QUANT.	UNIT PRICE	FINAL COST	EOI of 16091			05793A			XOI of 16091			05793A			PLAN EXTRAS					
						CONTR. QUANT.	REMARKS (AUTH. NO'S.)	FINAL QUANT.	FINAL COST	CONTR. QUANT.	REMARKS (AUTH. NO'S.)	FINAL QUANT.	FINAL COST	CONTR. QUANT.	REMARKS (AUTH. NO'S.)	FINAL QUANT.	FINAL COST	DATE	DESCRIPTION	UNIT	QUANTITY ESTIMATE	QUANTITY FINAL	
Steel Reinforcement	LBS.	11,507	11,521.7			5609		1007	5617	5879		1007	5364					T 16091 - 05793A					
TWO Component Polyurethane Cold Applied Joint Sealant	LF.	10	12.4			5		1007	4	5		1007	2					Class A Concrete	AUTH# 2003	TON	3657.7		
1/2 Expansion Anchored Bolts	Each	956	97.1			466		1007	473	492		1007	472					Pavement Asperatives	AUTH# 2003	TON	76.4		
Bridge Approach Curb Gutter	LF.	176	115.9			58		1007	71	58		1007	95					Bag Rig Rip	AUTH# 2003	TON	94		
Concrete Barrier - Bridge Type I (mod)	LF.	1474	1416.7			160		120	756	122							T 16091 - 07241A						
End Blocks	Each	16	16.7			8		2	8	3							Class A Structures - 23A	AUTH# 2003	TON	8169.7			
Revision to Existing Exp. Joint (EOI of 16091)	L.S.	Lump Sum	1														Existing Approaches	AUTH# 2004	TON	19.44			
Revision to Existing Exp. Joint (XOI of 16091)	L.S.	Lump Sum	1																				
Removal of Portions of Structure (EOI of 16091)	L.S.	Lump Sum	1																				
Removal of Portions of Structure (XOI of 16091)	L.S.	Lump Sum	1																				
<b>ADJUSTMENTS</b>																							
T 16091 - 05793A																			Fuel Adjustment	AUTH# 4002	LRS	343.6	
																			Asphalt Cement Adjustment	AUTH# 4003	LRS	1772.57	
																			Asphalt Cement Adjustment	AUTH# 4003	DRS	8142.37	
T 16091 - 07241A																			Fuel Adjustment	AUTH# 4003	LRS	2071.2	
																			Asphalt Cement Adjustment	AUTH# 4003	LRS	13214.1	
																			Asphalt Cement Adjustment	AUTH# 4003	DRS	18043.7	
T 16091 - 11521A																			Fuel Adjustment	AUTH# 4002	LRS	1322.7	
																			Asphalt Cement Adjustment	AUTH# 4006	LRS	3844.7	
																			Asphalt Cement Adjustment	AUTH# 4006	LRS	5426.17	
																			Bit Material Adjustment	AUTH# 4001	DRS	1622.7	
T 16091 - 11521A																			Fuel Adjustment	AUTH# 4004	DRS	2187.35	
																			Asphalt Cement Adjustment	AUTH# 4004	DRS	12033.71	
																			Asphalt Cement Adjustment	AUTH# 4004	DRS	7880.17	
																			Bit Material Adjustment	AUTH# 4004	DRS	9619.71	
MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION																			QUANTITY SHEET				
																			SENIOR BOSS	Russell	10-7-76		
																			DRAWN BY				
																			TRACED BY				
																			CHEEDED BY	Horchger	10-6-76		
																			SHEET	A	OF		
CONTROL SECTION Is 16091																			05793A				
																			05793A				

CH 11/29/76 B. S. Zorn

CHECKED  
CONTRACT SECTION  
DATE 3-1-79 def  
05793A  
B M 1 (10-23-74)

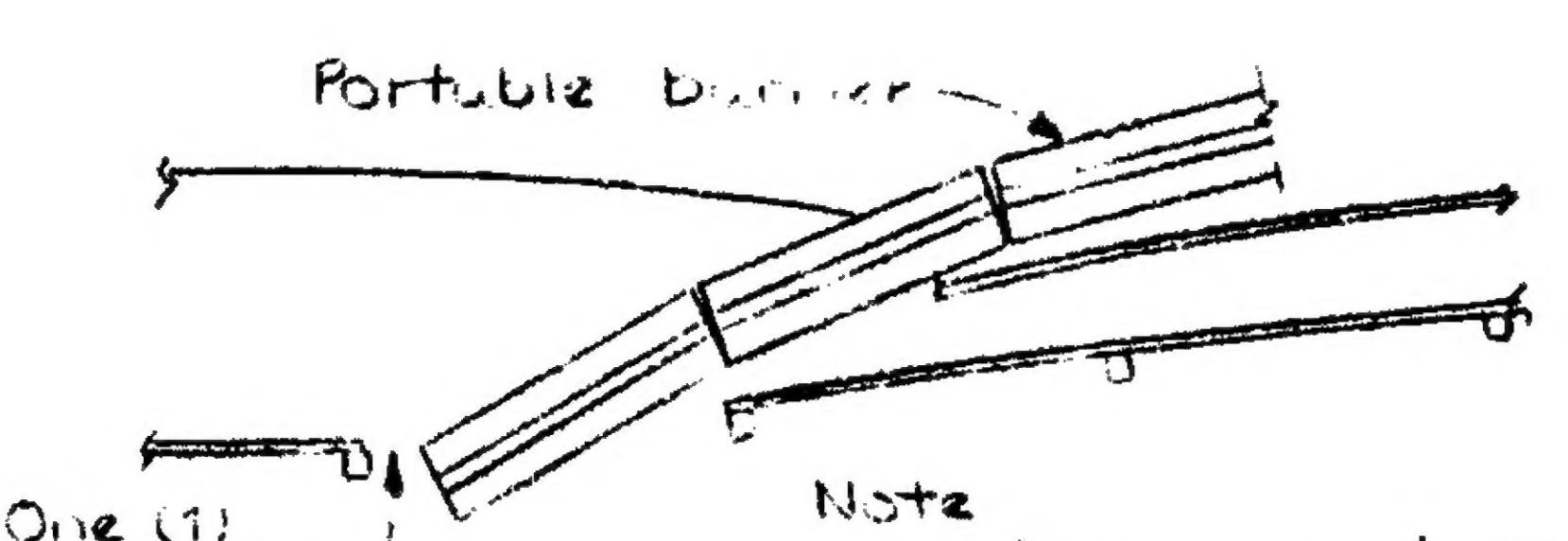




**NOTES:**  
W20-5(II) Overlay "Right" with "Left" or "Left" with "Right" shall be incidental to the sign.

W4-2(III) When a lane closure changes from Right to Left this sign will be erected on existing supports (only the W4-2 will be paid for additional).

**use**  
2 - 2" (10LFT) Steel Post for Barricade Mounted Signs  
3 - 2" (39LFT) Steel Post for G20-2  
2 - 3" (38LFT) Steel Post for 48" Warning Signs



DETAIL A

**MICHIGAN DEPARTMENT OF STATE HIGHWAYS**  
**MAINTAINING TRAFFIC DIAGRAM**

REVISIONS	DESCRIPTION	DATE	BY

ROAD NO. 16091 DATED 12-9-76  
DRAWN BY B. HOW 7-18-75  
TRACED BY  
CHECKED BY Kercher 7-20-75  
SHEET 1G OF 1  
16091  
05793A

**EA or Ea. = Each**      **Sft. = Square feet**  
**Lft. = Lineal feet**      **L Sum = Lump Sum**

# QUANTITY (CONSTRUCTION TRAFFIC CONTROL DEVICES) (For Information only) (see Road Plans)

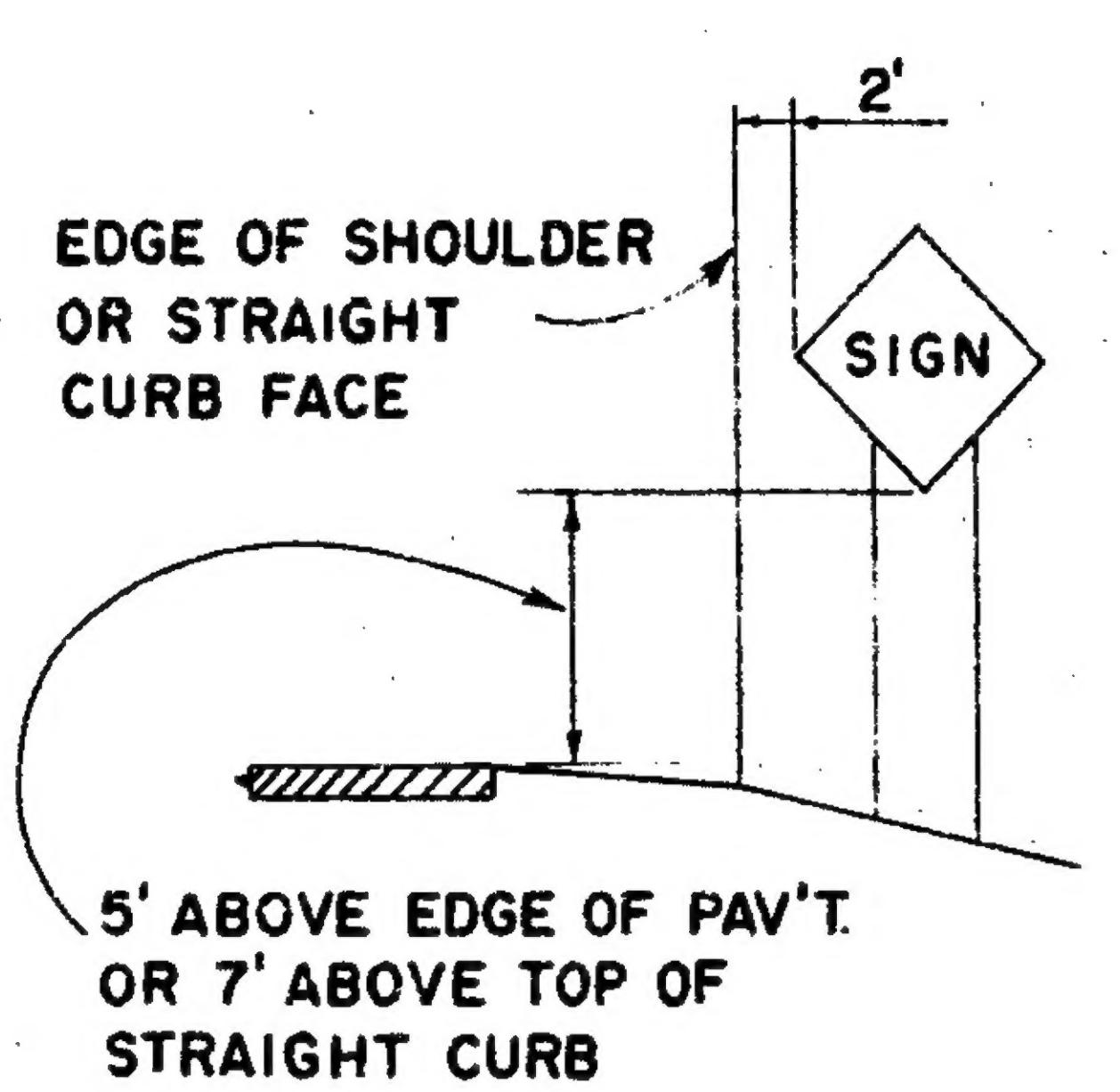
STATE	FEDERAL PROJECT	R.O.W. NO.	sheet no.	Total Sheets
STATE	COUNTY	CONTROL SECTION	JOB NO.	
MICH.				

These quantities are the maximum amount required at any one time and will not be paid for again at other locations.

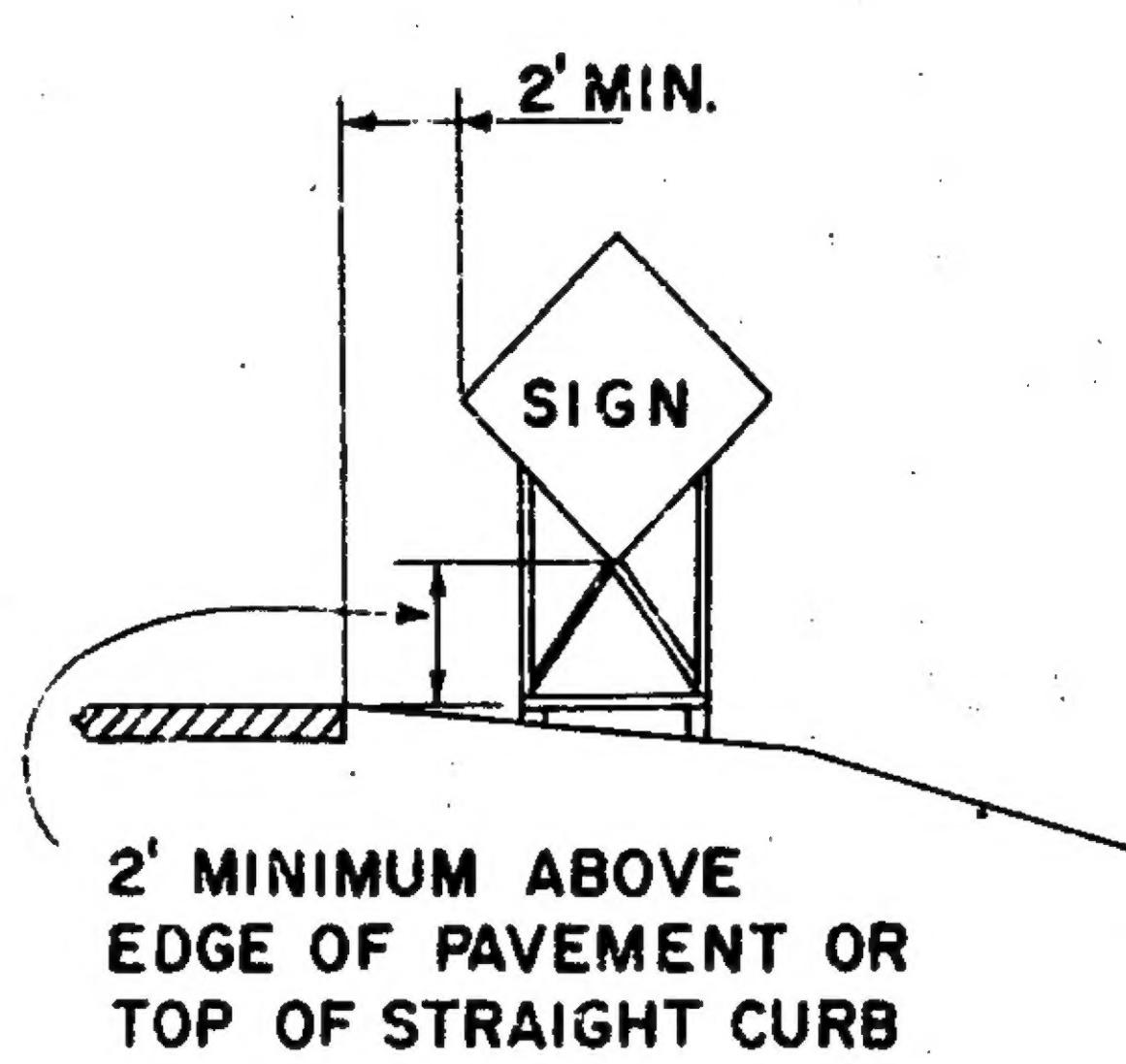
# AS CONSTRUCTED

CONTROL SECTION	16091	JOB NO.	FEDERAL PROJECT	R.O.W. NO	SHEE NO
					I-D

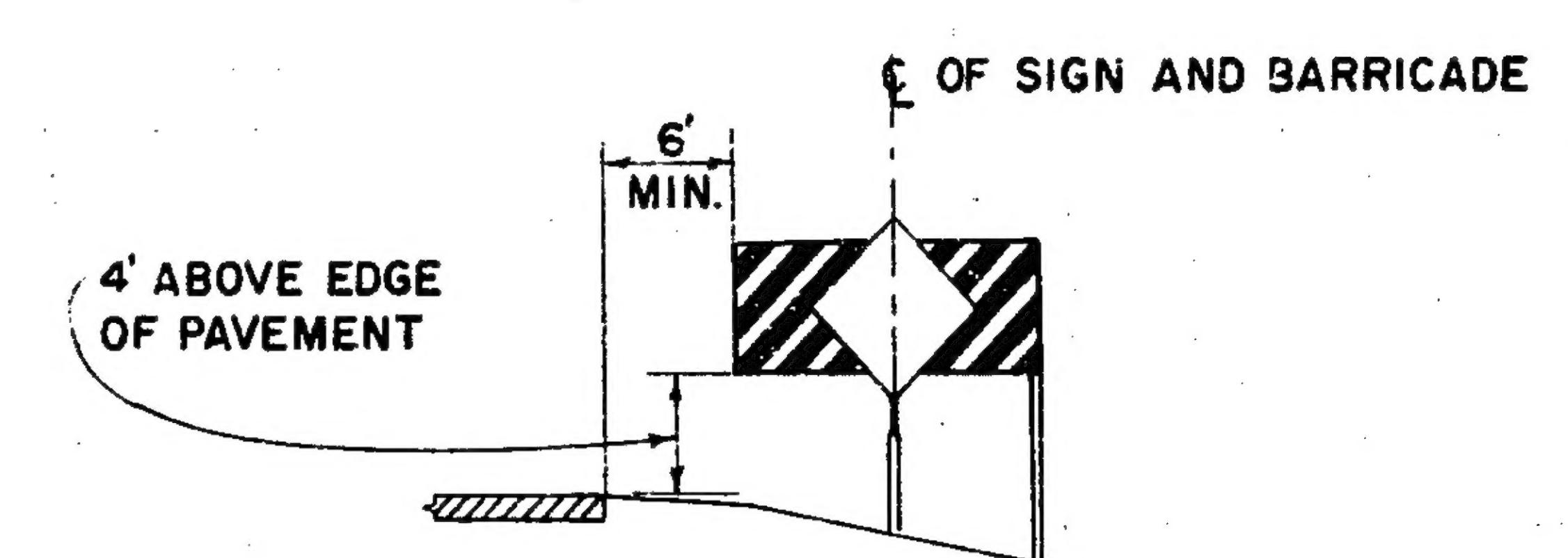
05793A



SIGN LOCATION

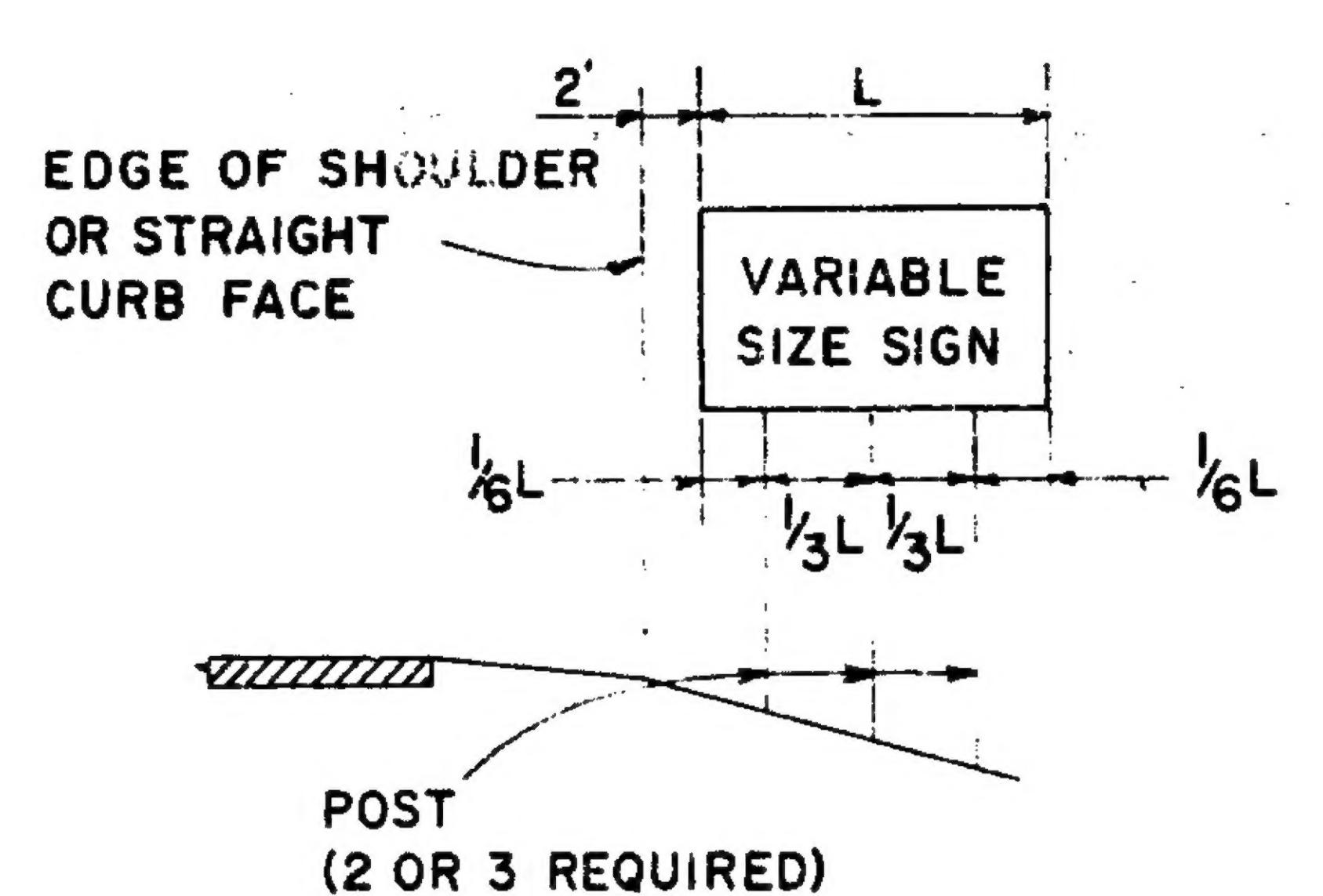


SIGN LOCATION



BARRICADE LOCATION

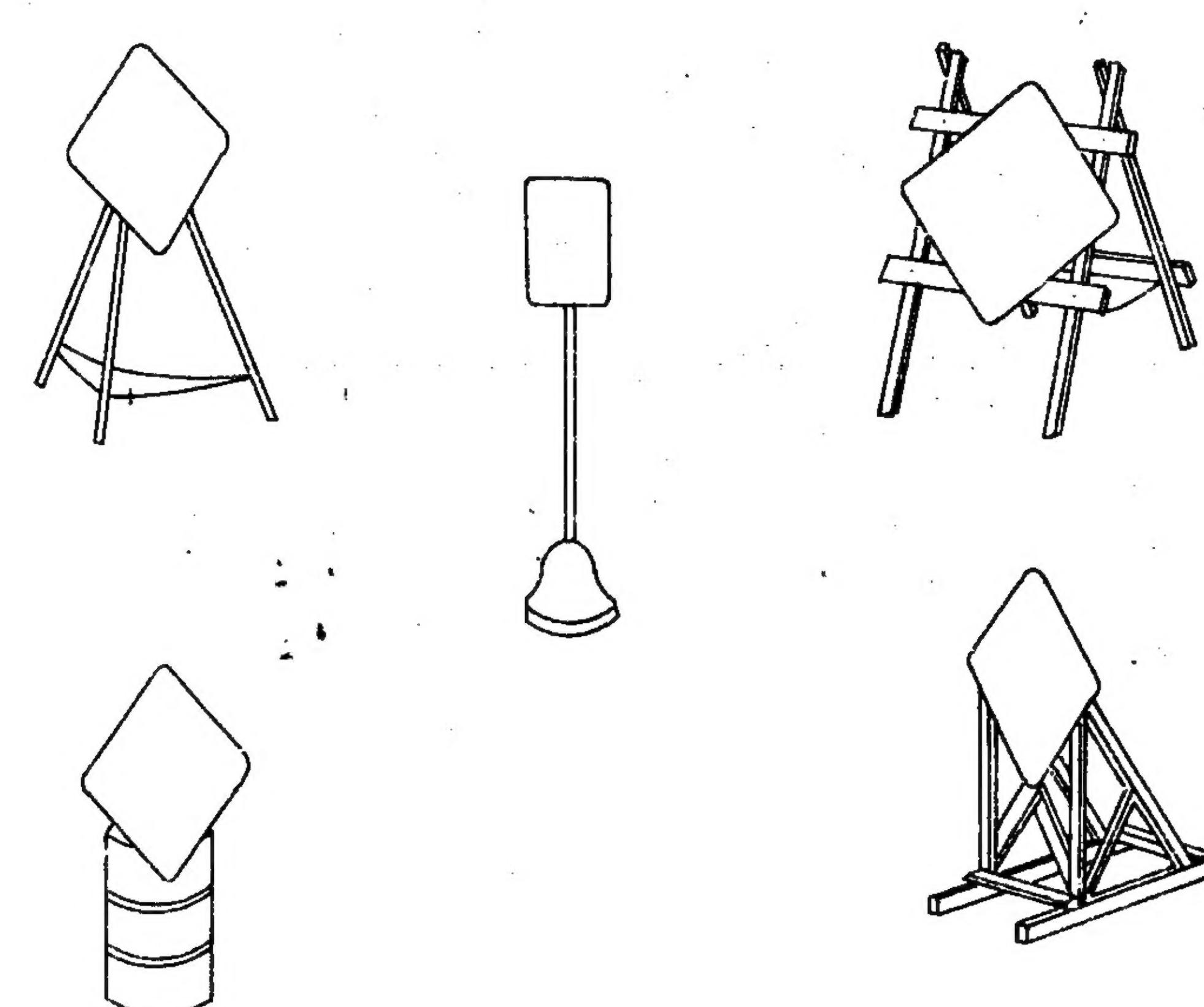
SEE STANDARD PLAN S6001  
FOR DETAIL OF FABRICATION  
AND INSTALLATION OF SWING-  
ING BARRICADES.



SUPPORT LOCATION  
FOR VARIABLE SIZE SIGN

NOTES:

1. WHEN CALLED FOR ON SIGN LOCATION PLANS, LATERAL CLEARANCE MAY BE DECREASED TO A MINIMUM OF 6 FEET BETWEEN EDGE OF PAVEMENT AND NEAREST EDGE OF SIGN. (APPLICABLE ONLY WHERE SHOULDERS EXIST)
2. SUPPORT LOCATION FOR SIGNS HAVING FIXED DIMENSIONS SHALL BE CONTROLLED BY HOLE LOCATION INDICATED ON STANDARD SIGN PLAN.



TYPICAL PORTABLE AND TEMPORARY MOUNTINGS

NOTES:

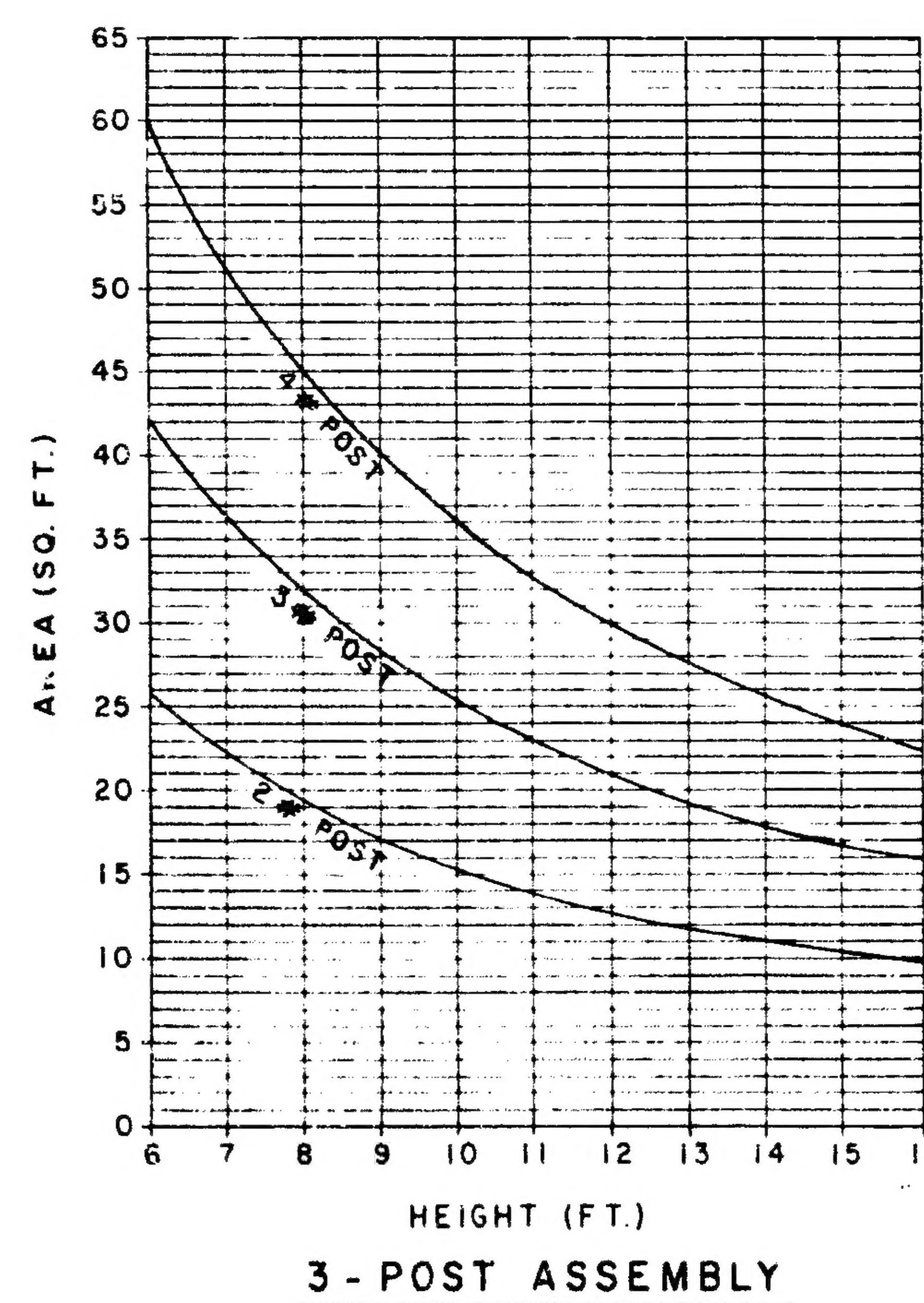
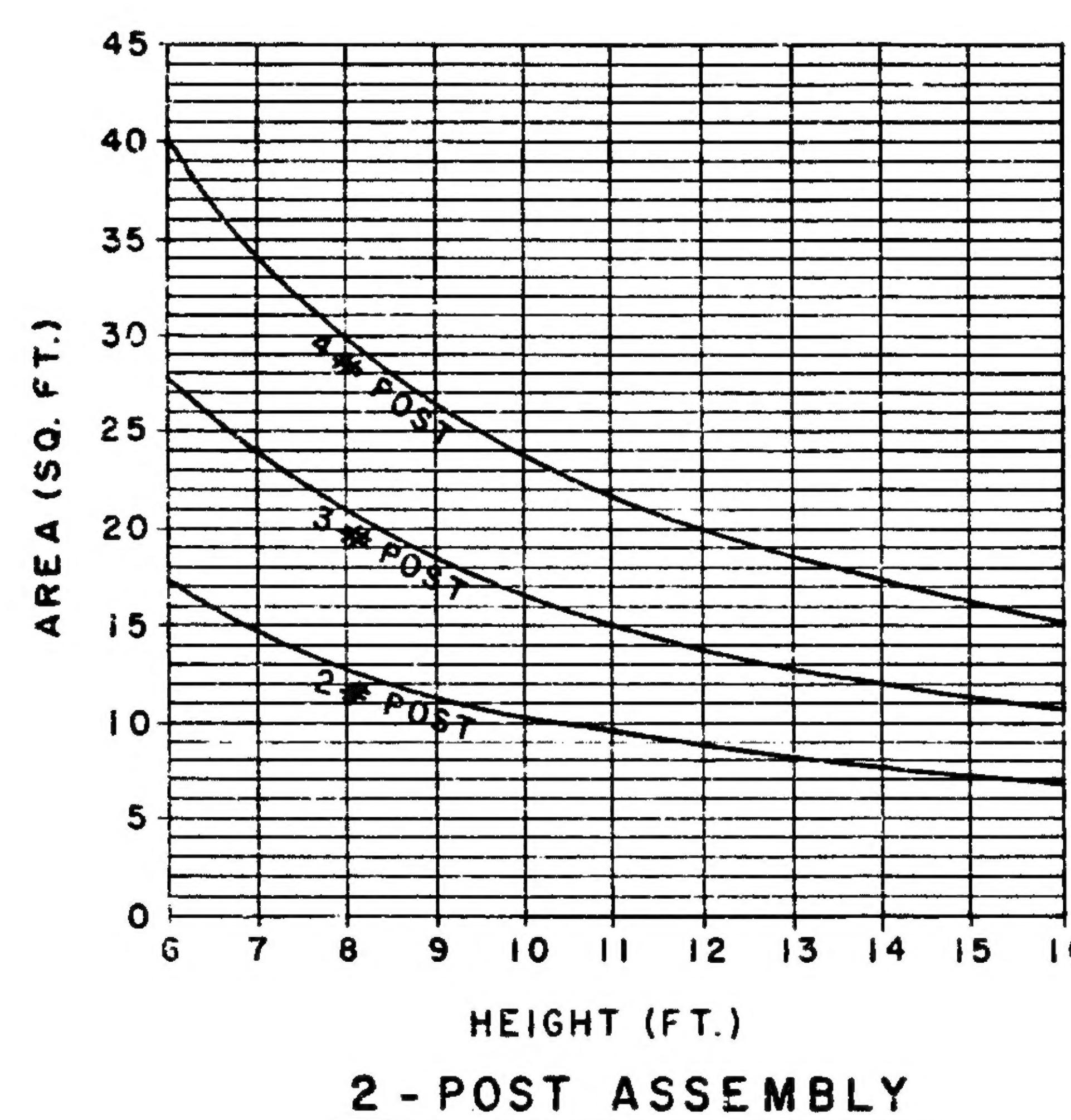
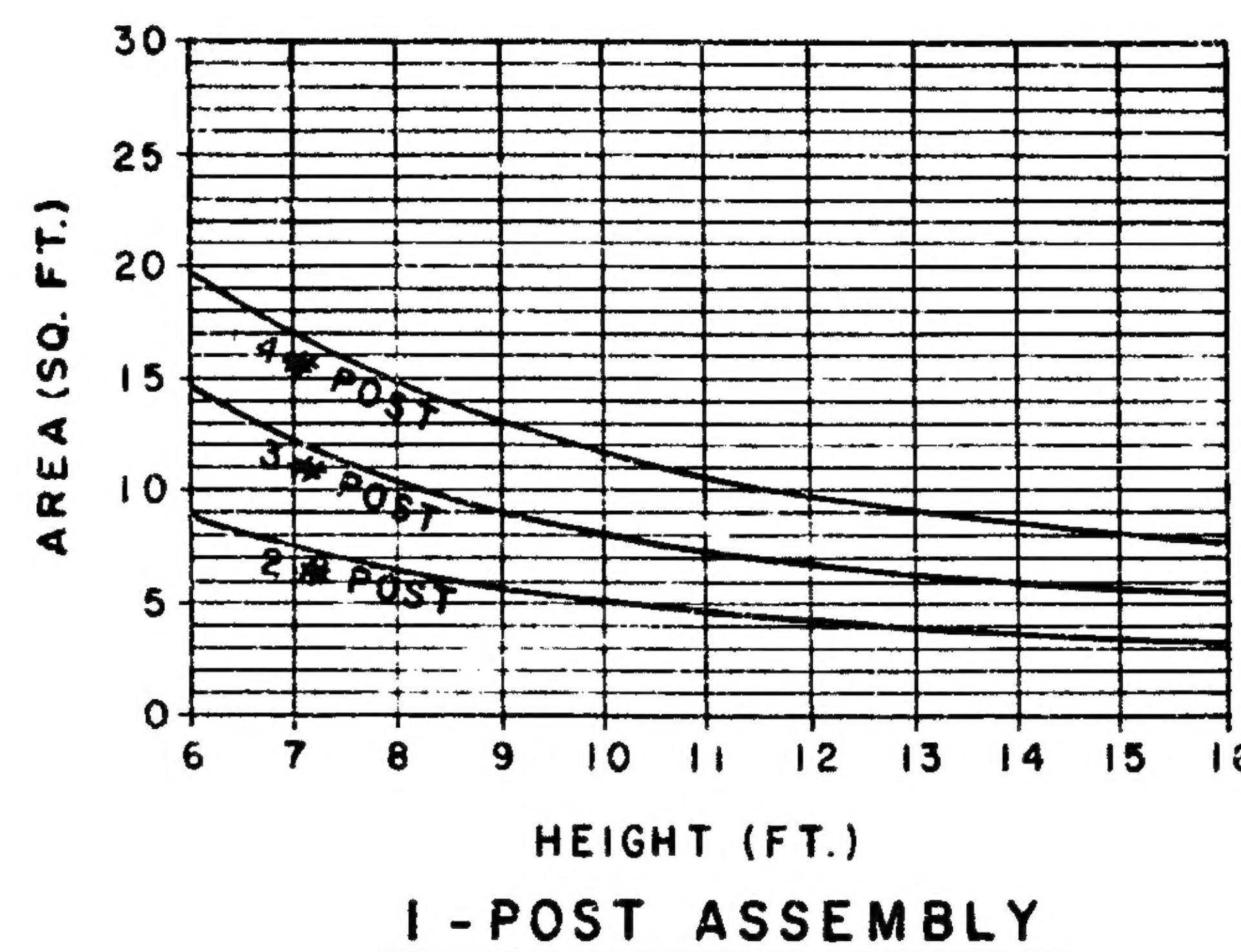
1. EXACT TYPE OF PORTABLE OR TEMPORARY MOUNTING TO BE USED ON A SPECIFIC PROJECT SHALL BE APPROVED BY THE PROJECT ENGINEER.
2. WHEN CALLED FOR ON SIGN LOCATION PLANS, SIGNS ON PORTABLE OR TEMPORARY MOUNTINGS MAY BE PLACED WITHIN THE TRAVELED PORTION OF THE ROADWAY.

SIGNS ON  
SEMI-PERMANENT  
SUPPORTS (2' 3" 4" 6" 8" POST)

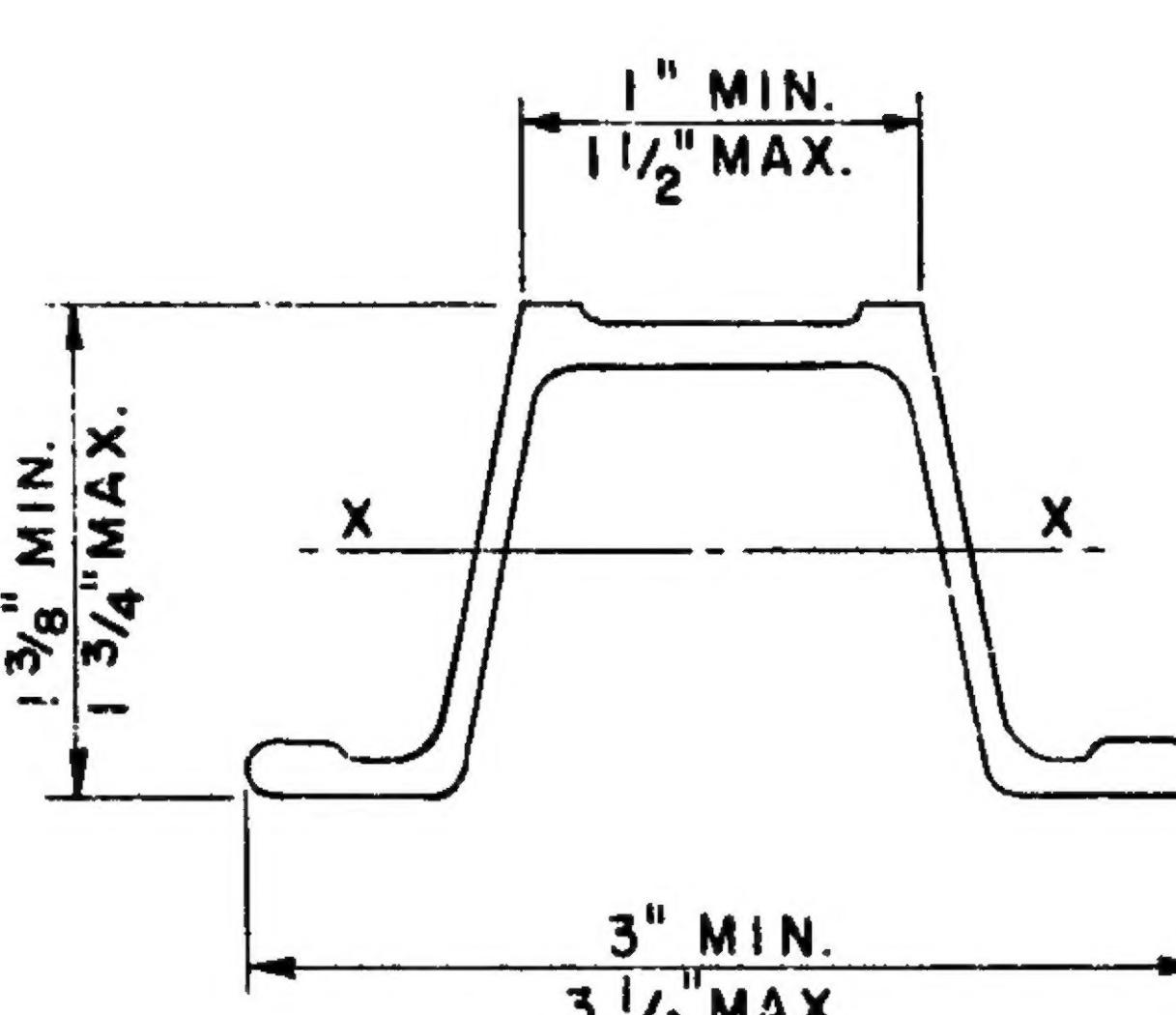
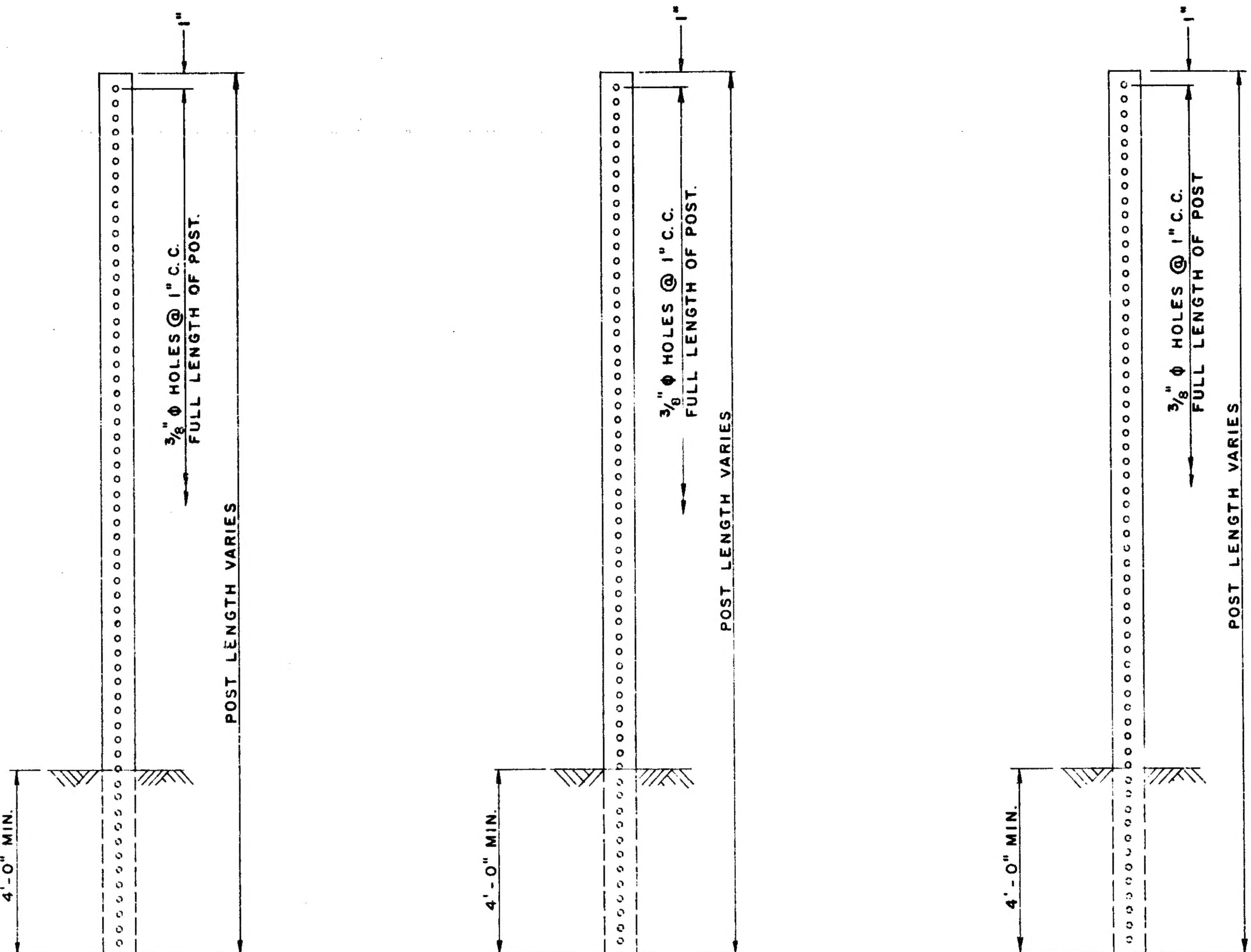
SIGNS ON  
PORTABLE SUPPORTS

MICHIGAN DEPARTMENT OF STATE HIGHWAYS  
TYPICAL LOCATIONS & SUPPORTS  
FOR CONSTRUCTION SIGNS

REVISIONS			
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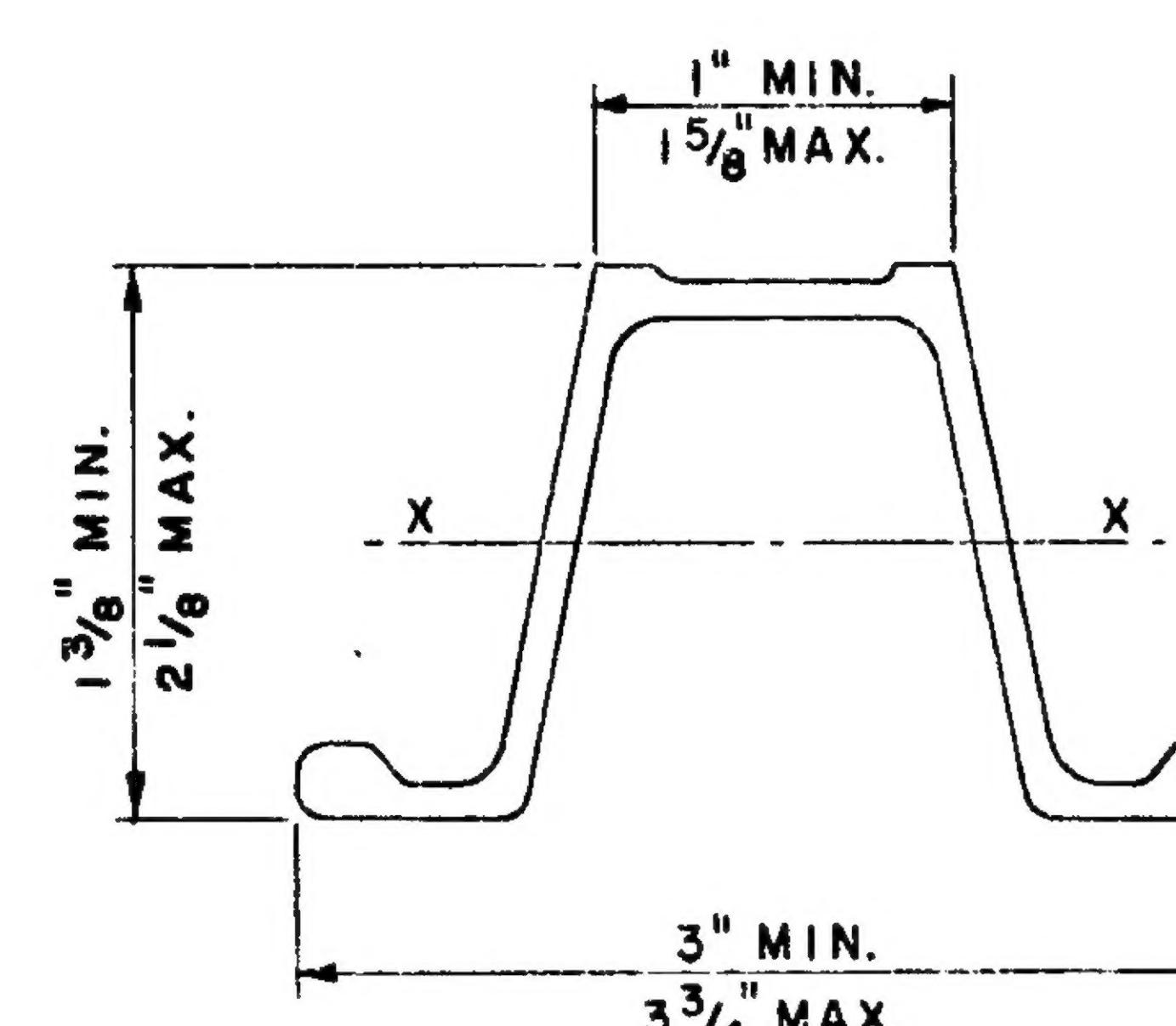


HEIGHT = DISTANCE FROM GROUND TO CENTER OF SIGN OR SIGN CLUSTER.



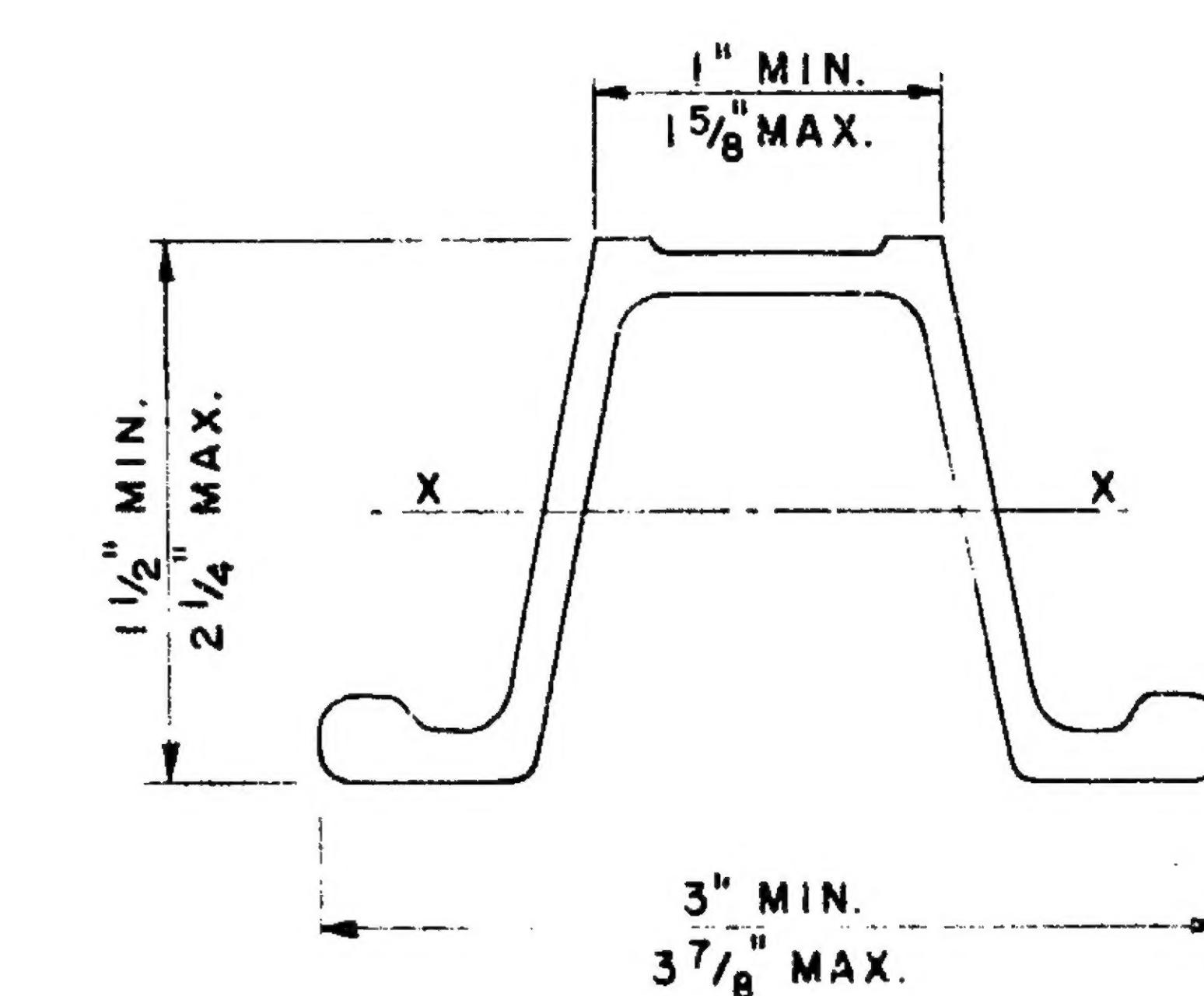
WEIGHT = 2 LB/FT MIN.  
SECTION MODULUS X-X = 0.19 IN.<sup>3</sup> MIN.

2# STEEL POST



WEIGHT = 3 LB/FT MIN.  
SECTION MODULUS X-X = 0.31 IN.<sup>3</sup> MIN.

3# STEEL POST



WEIGHT = 4 LB/FT MIN.  
SECTION MODULUS X-X = 0.44 IN.<sup>3</sup> MIN.

4# STEEL POST

NOTES:  
(1) POST SHALL BE GALVANIZED.  
(2) SEE STANDARD PLAN S 9.20  
FOR SIGN CONNECTION.

MICHIGAN DEPARTMENT OF STATE HIGHWAYS  
AND TRANSPORTATION

STEEL POST

REVISIONS			
NO.	DESCRIPTION	DATE	BY

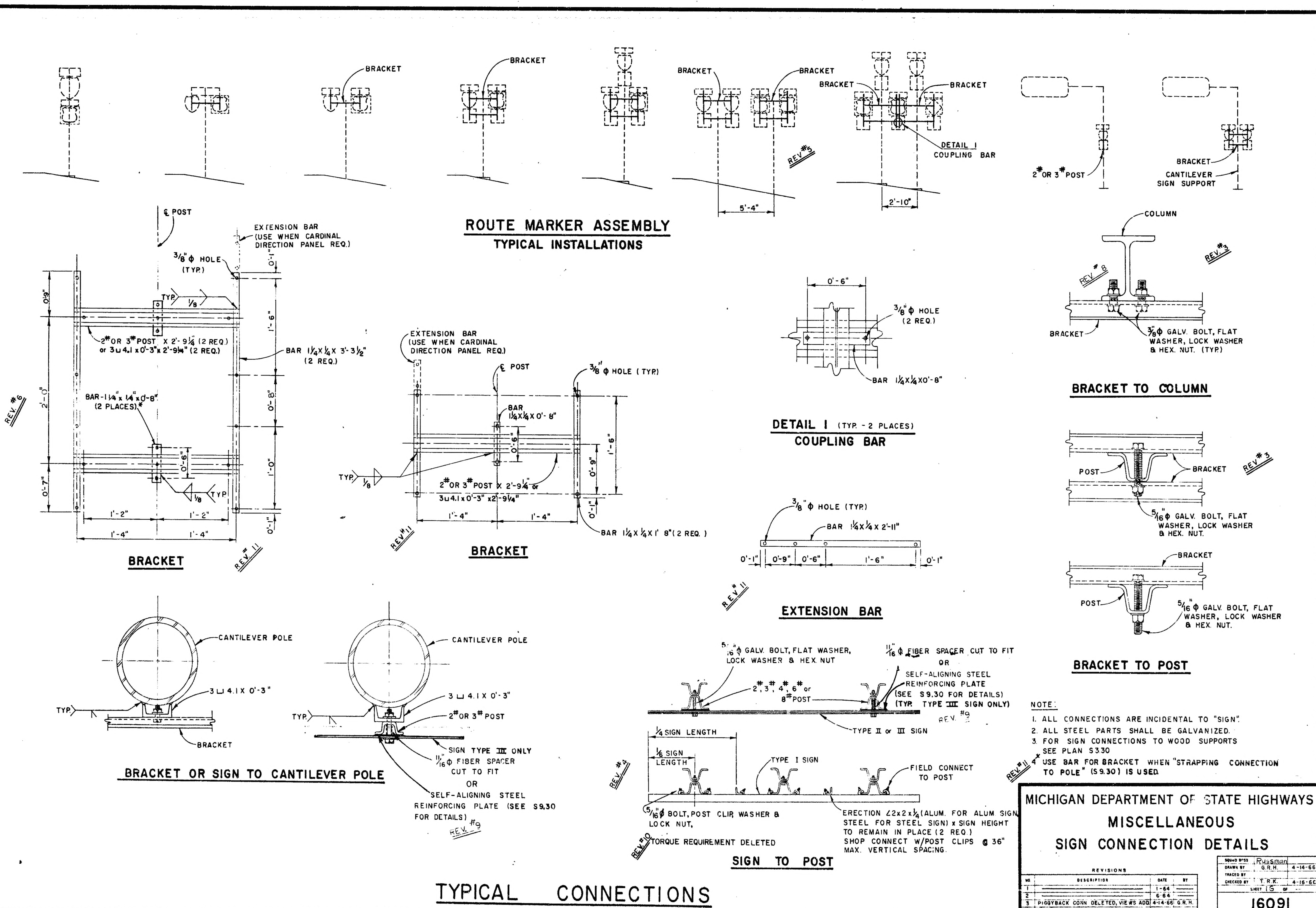
SHAD BOSS Russman  
DRAWN BY W.C.G. 8-7-75  
TRACED BY  
CHECKED BY L.W.P. 8-13-75  
SHEET 1F OF

16091

05793A

# ROUTE MARKER ASSEMBLY

## TYPICAL INSTALLATIONS



# TYPICAL CONNECTIONS

12. Holes changed to 3

II. BRACKET REDESIGNED. NOTE #4 ADDED.

**EXTENSION BAR CHANGED, ALTERNATE  
BRACKET MATERIAL PROVIDED 8-72**

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12. Sign to post, Bracket to column & post-  
Brackets 14 x 3 1/2" x 5 1/2"

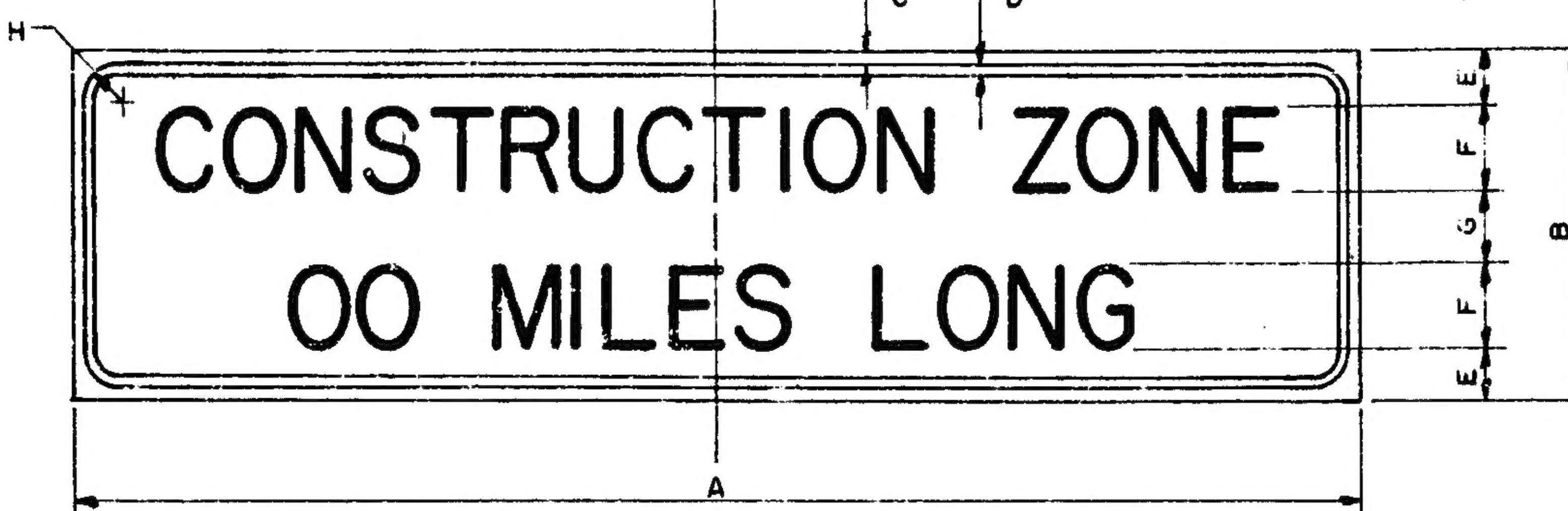
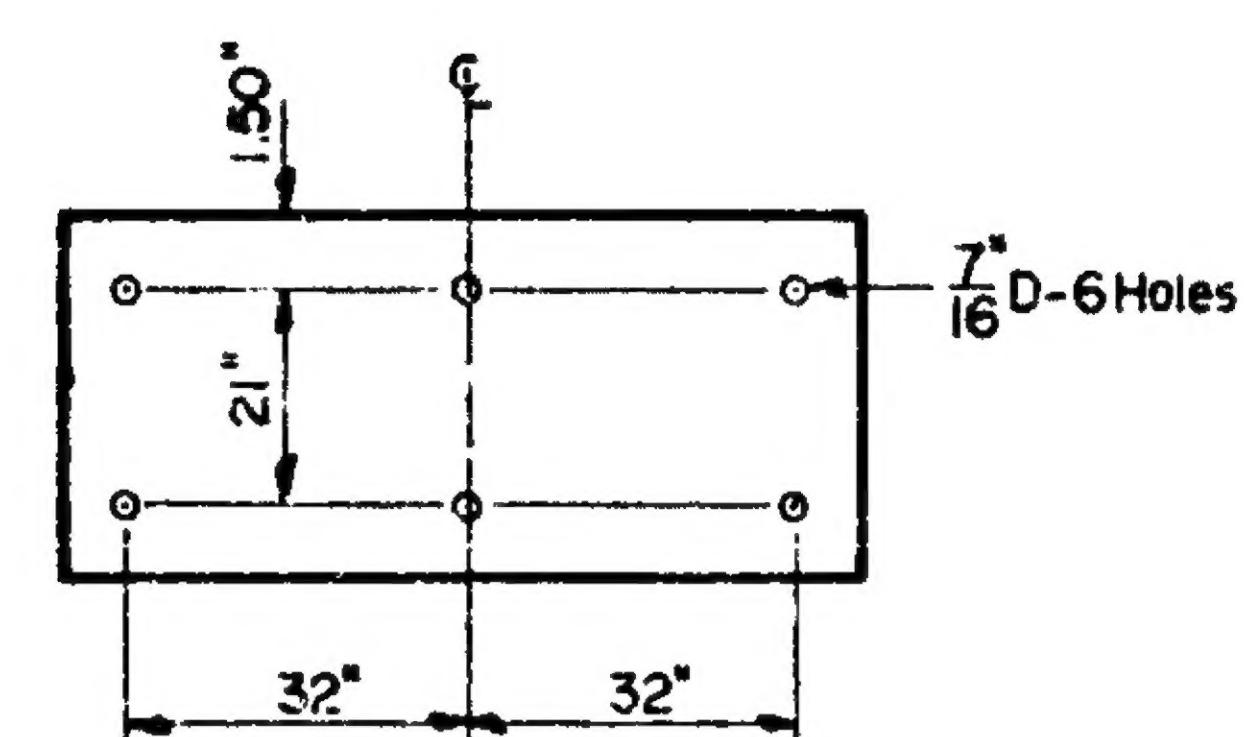
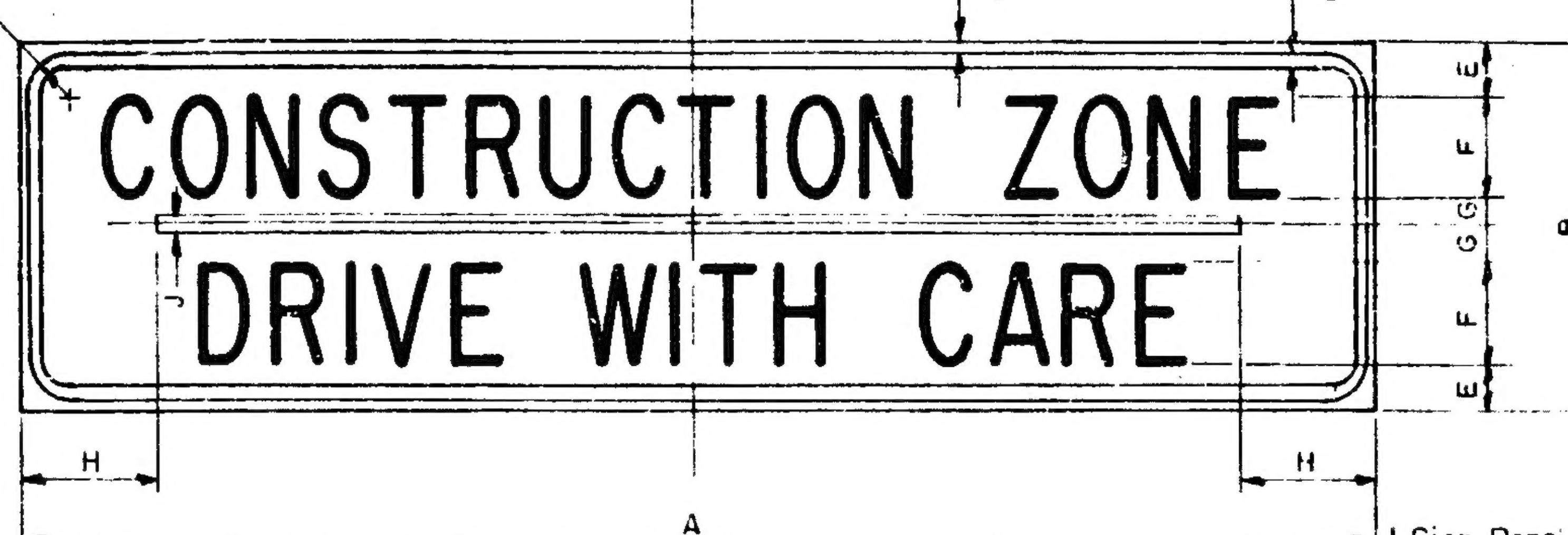
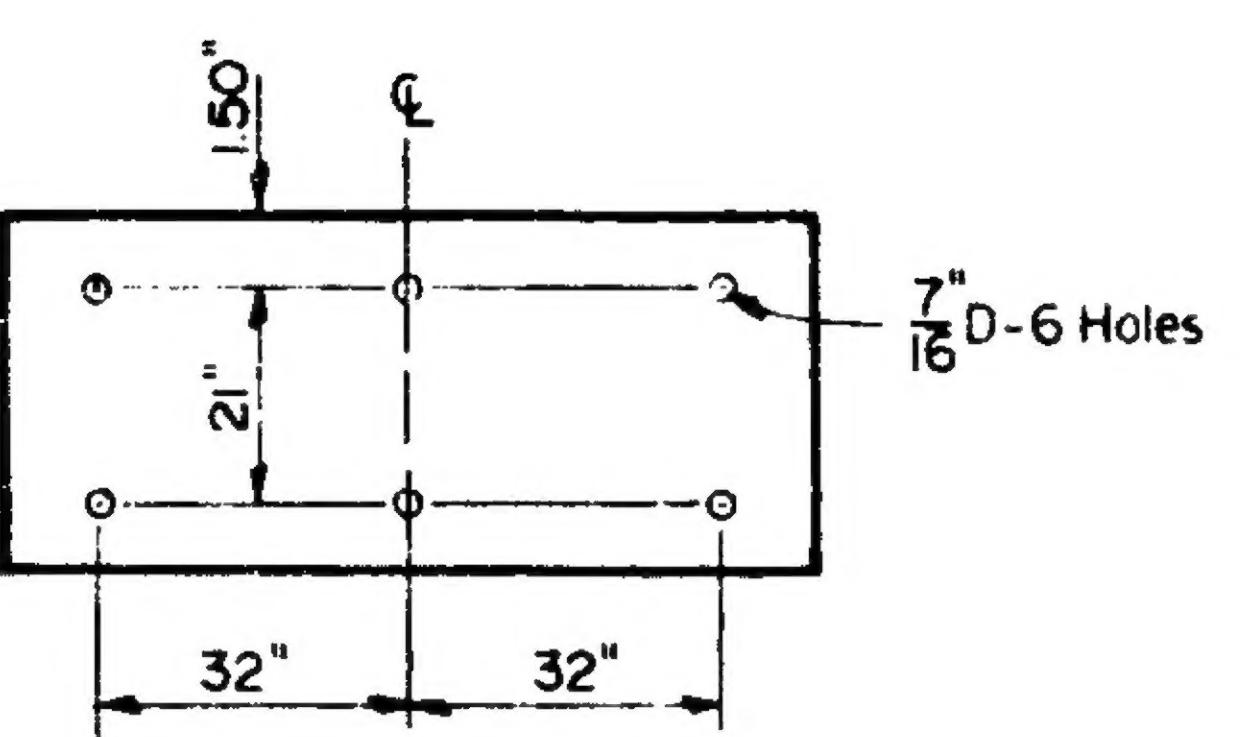
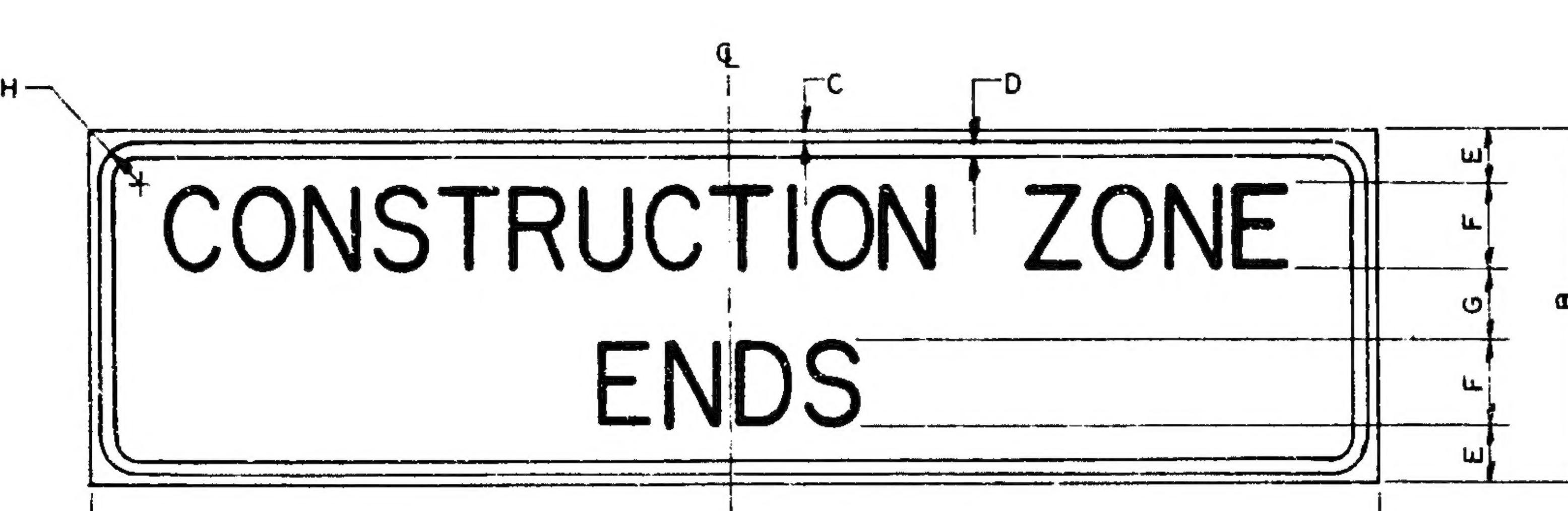
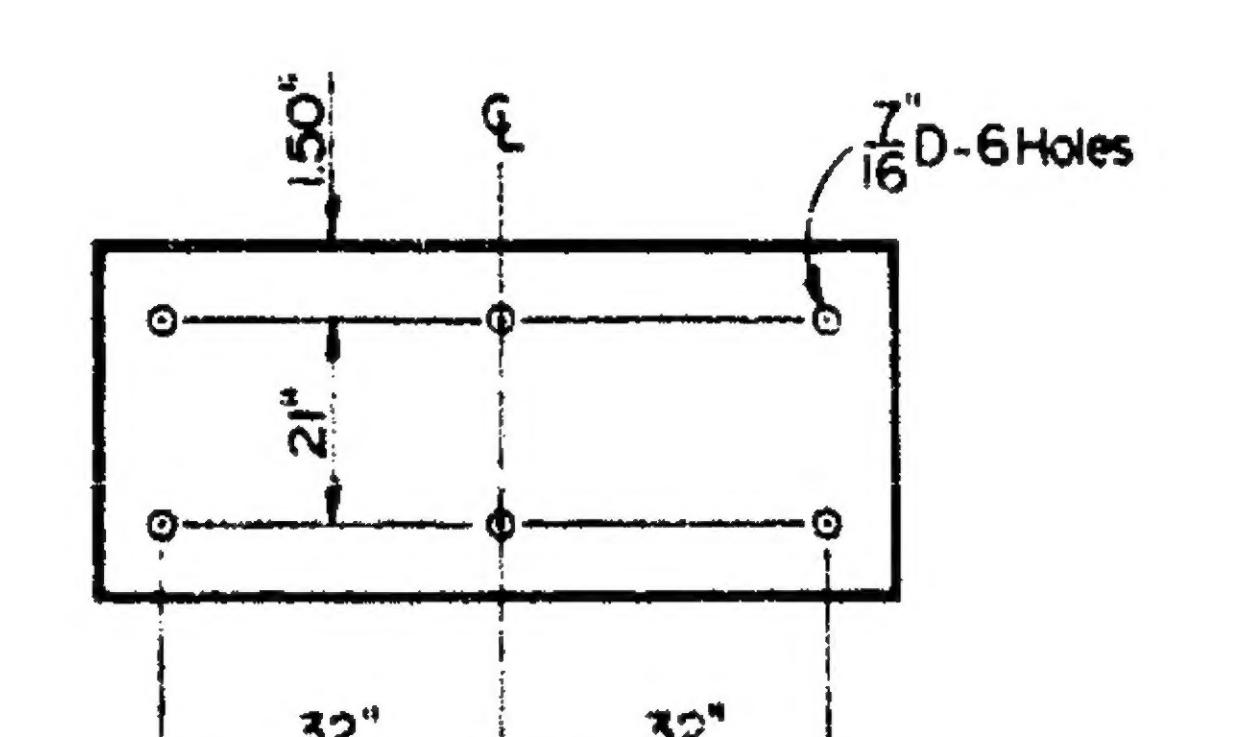
MICHIGAN DEPARTMENT OF STATE HIGHWAYS  
MISCELLANEOUS  
SIGN CONNECTION DETAILS

REVISIONS		
NO.	DESCRIPTION	DATE : BY
1		1-64
2		6-64
3	PIGGYBACK CONN DELETED, VIEWS ADD	4-14-66 G.R.H.
4	6" B"8" POSTS ADD. TO 'SIGN TO POST' VIEW	4-11-67 TMW
5	CHANGE 4-SIGN CLUSTER MOUNTING	11-29-67 KGP

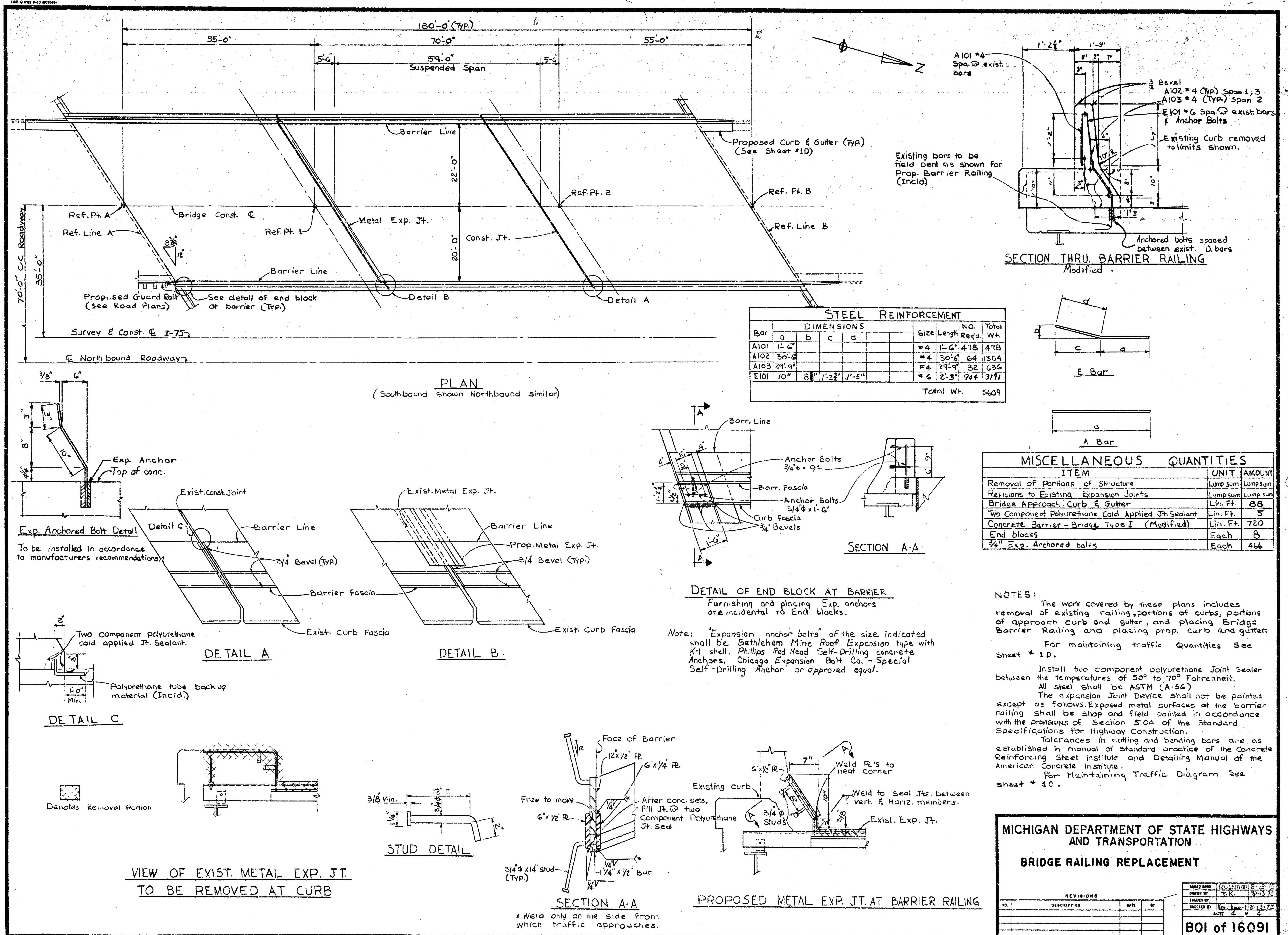
SHEET 1G OF --


**16091**

SEARCHED 3-71 WJM  
REFERENCE DELETED

 <p><b>CONSTRUCTION ZONE OO MILES LONG</b></p> <p><b>SPECIFICATIONS</b></p> <p>1. Sign Panel: Type II, 5/8" Plywood or approved equal.      2. Sign Face: Type B,      (a) Legend; Series "C" letters of the height indicated.      (b) Color; Black letters and border on an orange background.      (c) Reflectorization; Orange sheeting.</p> <p><b>DETAIL OF SIGN</b></p>  <p>150<sup>°</sup> 21<sup>°</sup> 32" 32" 7" D-6 Holes</p> <p><b>SUPPORT HOLE PLACEMENT</b></p> <p><b>REVISIONS</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> <tr> <td>1</td> <td>Redrawn - Sign Design Changed</td> <td>4/74</td> </tr> <tr> <td colspan="3"> </td> </tr> </table> <p><b>NOTES:</b> 1. All letters and spacing between letters shall be in accordance with standards prepared by the FHWA. 2. The legend shall be optically centered horizontally on the sign.</p> <p><b>DETAIL OF SIGN</b></p> <p><b>REVISIONS</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> <tr> <td>1</td> <td>Redrawn - Sign Design Changed</td> <td>4/74</td> </tr> <tr> <td colspan="3"> </td> </tr> </table> <p><b>NOTES:</b> 1. All letters and spacing between letters shall be in accordance with standards prepared by the FHWA. 2. The legend shall be optically centered horizontally on the sign.</p>	NO.	DESCRIPTION	DATE	1	Redrawn - Sign Design Changed	4/74				NO.	DESCRIPTION	DATE	1	Redrawn - Sign Design Changed	4/74				 <p><b>CONSTRUCTION ZONE DRIVE WITH CARE</b></p> <p><b>SPECIFICATIONS</b></p> <p>1. Sign Panel: Type II, 5/8" Plywood or approved equal.      2. Sign Face: Type B,      (a) Legend; Series "C" letters of the height indicated.      (b) Color; Black letters and border on an orange background.      (c) Reflectorization; Orange sheeting.</p> <p><b>DETAIL OF SIGN</b></p>  <p>150<sup>°</sup> 21<sup>°</sup> 32" 32" 7" D-6 Holes</p> <p><b>SUPPORT HOLE PLACEMENT</b></p> <p><b>REVISIONS</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> <tr> <td>1</td> <td>Redrawn - Sign Design Changed</td> <td>4/74</td> </tr> <tr> <td colspan="3"> </td> </tr> </table> <p><b>NOTES:</b> 1. All letters and spacing between letters shall be in accordance with standards prepared by the FHWA. 2. The legend shall be optically centered horizontally on the sign.</p> <p><b>DETAIL OF SIGN</b></p> <p><b>REVISIONS</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> <tr> <td>1</td> <td>Redrawn - Sign Design Changed</td> <td>4/74</td> </tr> <tr> <td colspan="3"> </td> </tr> </table> <p><b>NOTES:</b> 1. All letters and spacing between letters shall be in accordance with standards prepared by the FHWA. 2. The legend shall be optically centered horizontally on the sign.</p>	NO.	DESCRIPTION	DATE	1	Redrawn - Sign Design Changed	4/74				NO.	DESCRIPTION	DATE	1	Redrawn - Sign Design Changed	4/74			
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<p><b>MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION</b></p> <p><b>CONSTRUCTION ZONE SIGN DETAILS</b></p>																																					

16091	1H	1H
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# MICHIGAN STATE HIGHWAY DEPARTMENT

# **GENERAL PLAN OF SITE**

**(EXISTING BRIDGE)**

<u>SQUAD BOSS</u>	Russman
DRAWN BY	T.K.

*Cook* S-17-60

**DESIGN SUPERVISING ENGINEER**      **CHECKED BY** \_\_\_\_\_ **SHEET** \_\_\_\_\_

Glossen, 6.2.2020

ASS'T. ENGINEER OF DESIGN BUI OR

05793A

